

Supplementary Material C - "Understanding and Designing Avatar Biosignal Visualizations for Social VR Entertainment"

Sec 4.4.1 - Perceived avatar arousal post-hoc interactions

(Signal x Visualization)

	contrast	estimate	SE	df	t.ratio	p.value	sig.
1	HR,Creature - HR,Skeuomorphic	38.04	26.27	713.00	1.45	1.00	
2	HR,Creature - HR,Environment	-27.41	26.27	713.00	-1.04	1.00	
3	HR,Creature - HR,Particles	16.75	26.27	713.00	0.64	1.00	
4	HR,Creature - BR,Creature	205.09	26.27	713.00	7.81	0.00	***
5	HR,Creature - BR,Skeuomorphic	181.64	26.27	713.00	6.91	0.00	***
6	HR,Creature - BR,Environment	211.97	26.27	713.00	8.07	0.00	***
7	HR,Creature - BR,Particles	-4.92	26.27	713.00	-0.19	1.00	
8	HR,Skeuomorphic - HR,Environment	-65.45	26.27	713.00	-2.49	0.17	
9	HR,Skeuomorphic - HR,Particles	-21.29	26.27	713.00	-0.81	1.00	
10	HR,Skeuomorphic - BR,Creature	167.05	26.27	713.00	6.36	0.00	***
11	HR,Skeuomorphic - BR,Skeuomorphic	143.59	26.27	713.00	5.47	0.00	***
12	HR,Skeuomorphic - BR,Environment	173.93	26.27	713.00	6.62	0.00	***
13	HR,Skeuomorphic - BR,Particles	-42.96	26.27	713.00	-1.64	1.00	
14	HR,Environment - HR,Particles	44.16	26.27	713.00	1.68	1.00	
15	HR,Environment - BR,Creature	232.49	26.27	713.00	8.85	0.00	***
16	HR,Environment - BR,Skeuomorphic	209.04	26.27	713.00	7.96	0.00	***
17	HR,Environment - BR,Environment	239.38	26.27	713.00	9.11	0.00	***
18	HR,Environment - BR,Particles	22.49	26.27	713.00	0.86	1.00	
19	HR,Particles - BR,Creature	188.34	26.27	713.00	7.17	0.00	***
20	HR,Particles - BR,Skeuomorphic	164.89	26.27	713.00	6.28	0.00	***
21	HR,Particles - BR,Environment	195.22	26.27	713.00	7.43	0.00	***
22	HR,Particles - BR,Particles	-21.67	26.27	713.00	-0.82	1.00	
23	BR,Creature - BR,Skeuomorphic	-23.45	26.27	713.00	-0.89	1.00	
24	BR,Creature - BR,Environment	6.89	26.27	713.00	0.26	1.00	
25	BR,Creature - BR,Particles	-210.01	26.27	713.00	-7.99	0.00	***
26	BR,Skeuomorphic - BR,Environment	30.34	26.27	713.00	1.15	1.00	
27	BR,Skeuomorphic - BR,Particles	-186.55	26.27	713.00	-7.10	0.00	***
28	BR,Environment - BR,Particles	-216.89	26.27	713.00	-8.26	0.00	***

(Visualization x Rate)

	contrast	estimate	SE	df	t.ratio	p.value	sig.
1	Creature,High - Creature,Low	34.80	34.52	713.00	1.01	1.00	
2	Creature,High - Creature,Rest	52.56	34.52	713.00	1.52	1.00	
3	Creature,High - Skeuomorphic,High	-54.55	34.52	713.00	-1.58	1.00	
4	Creature,High - Skeuomorphic,Low	124.27	34.52	713.00	3.60	0.02	*
5	Creature,High - Skeuomorphic,Rest	14.67	34.52	713.00	0.43	1.00	
6	Creature,High - Environment,High	-3.79	34.52	713.00	-0.11	1.00	
7	Creature,High - Environment,Low	44.94	34.52	713.00	1.30	1.00	
8	Creature,High - Environment,Rest	24.13	34.52	713.00	0.70	1.00	
9	Creature,High - Particles,High	-116.70	34.52	713.00	-3.38	0.04	*
10	Creature,High - Particles,Low	-47.75	34.52	713.00	-1.38	1.00	
11	Creature,High - Particles,Rest	-70.70	34.52	713.00	-2.05	1.00	
12	Creature,Low - Creature,Rest	17.77	34.52	713.00	0.51	1.00	
13	Creature,Low - Skeuomorphic,High	-89.34	34.52	713.00	-2.59	0.42	
14	Creature,Low - Skeuomorphic,Low	89.47	34.52	713.00	2.59	0.42	
15	Creature,Low - Skeuomorphic,Rest	-20.13	34.52	713.00	-0.58	1.00	
16	Creature,Low - Environment,High	-38.59	34.52	713.00	-1.12	1.00	
17	Creature,Low - Environment,Low	10.14	34.52	713.00	0.29	1.00	
18	Creature,Low - Environment,Rest	-10.66	34.52	713.00	-0.31	1.00	
19	Creature,Low - Particles,High	-151.50	34.52	713.00	-4.39	0.00	***
20	Creature,Low - Particles,Low	-82.55	34.52	713.00	-2.39	0.68	
21	Creature,Low - Particles,Rest	-105.50	34.52	713.00	-3.06	0.11	
22	Creature,Rest - Skeuomorphic,High	-107.11	34.52	713.00	-3.10	0.10	.
23	Creature,Rest - Skeuomorphic,Low	71.70	34.52	713.00	2.08	1.00	
24	Creature,Rest - Skeuomorphic,Rest	-37.89	34.52	713.00	-1.10	1.00	
25	Creature,Rest - Environment,High	-56.35	34.52	713.00	-1.63	1.00	
26	Creature,Rest - Environment,Low	-7.62	34.52	713.00	-0.22	1.00	
27	Creature,Rest - Environment,Rest	-28.43	34.52	713.00	-0.82	1.00	
28	Creature,Rest - Particles,High	-169.27	34.52	713.00	-4.90	0.00	***
29	Creature,Rest - Particles,Low	-100.31	34.52	713.00	-2.91	0.18	
30	Creature,Rest - Particles,Rest	-123.27	34.52	713.00	-3.57	0.02	*
31	Skeuomorphic,High - Skeuomorphic,Low	178.81	34.52	713.00	5.18	0.00	***
32	Skeuomorphic,High - Skeuomorphic,Rest	69.22	34.52	713.00	2.01	1.00	
33	Skeuomorphic,High - Environment,High	50.76	34.52	713.00	1.47	1.00	
34	Skeuomorphic,High - Environment,Low	99.48	34.52	713.00	2.88	0.19	
35	Skeuomorphic,High - Environment,Rest	78.68	34.52	713.00	2.28	0.87	
36	Skeuomorphic,High - Particles,High	-62.16	34.52	713.00	-1.80	1.00	
37	Skeuomorphic,High - Particles,Low	6.80	34.52	713.00	0.20	1.00	
38	Skeuomorphic,High - Particles,Rest	-16.16	34.52	713.00	-0.47	1.00	
39	Skeuomorphic,Low - Skeuomorphic,Rest	-109.59	34.52	713.00	-3.17	0.08	.
40	Skeuomorphic,Low - Environment,High	-128.05	34.52	713.00	-3.71	0.01	*
41	Skeuomorphic,Low - Environment,Low	-79.33	34.52	713.00	-2.30	0.85	
42	Skeuomorphic,Low - Environment,Rest	-100.13	34.52	713.00	-2.90	0.18	
43	Skeuomorphic,Low - Particles,High	-240.97	34.52	713.00	-6.98	0.00	***
44	Skeuomorphic,Low - Particles,Low	-172.02	34.52	713.00	-4.98	0.00	***
45	Skeuomorphic,Low - Particles,Rest	-194.97	34.52	713.00	-5.65	0.00	***
46	Skeuomorphic,Rest - Environment,High	-18.46	34.52	713.00	-0.53	1.00	
47	Skeuomorphic,Rest - Environment,Low	30.27	34.52	713.00	0.88	1.00	
48	Skeuomorphic,Rest - Environment,Rest	9.46	34.52	713.00	0.27	1.00	
49	Skeuomorphic,Rest - Particles,High	-131.38	34.52	713.00	-3.81	0.01	**
50	Skeuomorphic,Rest - Particles,Low	-62.42	34.52	713.00	-1.81	1.00	
51	Skeuomorphic,Rest - Particles,Rest	-85.38	34.52	713.00	-2.47	0.56	
52	Environment,High - Environment,Low	48.73	34.52	713.00	1.41	1.00	
53	Environment,High - Environment,Rest	27.92	34.52	713.00	0.81	1.00	
54	Environment,High - Particles,High	-112.91	34.52	713.00	-3.27	0.06	.
55	Environment,High - Particles,Low	-43.96	34.52	713.00	-1.27	1.00	
56	Environment,High - Particles,Rest	-66.91	34.52	713.00	-1.94	1.00	
57	Environment,Low - Environment,Rest	-20.80	34.52	713.00	-0.60	1.00	
58	Environment,Low - Particles,High	-161.64	34.52	713.00	-4.68	0.00	***
59	Environment,Low - Particles,Low	-92.69	34.52	713.00	-2.69	0.33	
60	Environment,Low - Particles,Rest	-115.64	34.52	713.00	-3.35	0.05	*
61	Environment,Rest - Particles,High	-140.84	34.52	713.00	-4.08	0.00	**
62	Environment,Rest - Particles,Low	-71.88	34.52	713.00	-2.08	1.00	
63	Environment,Rest - Particles,Rest	-94.84	34.52	713.00	-2.75	0.28	
64	Particles,High - Particles,Low	68.95	34.52	713.00	2.00	1.00	
65	Particles,High - Particles,Rest	46.00	34.52	713.00	1.33	1.00	
66	Particles,Low - Particles,Rest	-22.95	34.52	713.00	-0.66	1.00	

Sec 4.4.2 - Perceived distraction post-hoc interactions (Signal x Visualization)

	contrast	estimate	SE	df	t.ratio	p.value	sig.
1	BR,Creature - BR,Environment	24.64	17.07	217.00	1.44	1.00	
2	BR,Creature - BR,Particles	-12.30	17.07	217.00	-0.72	1.00	
3	BR,Creature - BR,Skeuomorphic	16.72	17.07	217.00	0.98	1.00	
4	BR,Creature - HR,Creature	-24.09	17.07	217.00	-1.41	1.00	
5	BR,Creature - HR,Environment	-2.41	17.07	217.00	-0.14	1.00	
6	BR,Creature - HR,Particles	19.16	17.07	217.00	1.12	1.00	
7	BR,Creature - HR,Skeuomorphic	54.91	17.07	217.00	3.22	0.04	*
8	BR,Environment - BR,Particles	-36.94	17.07	217.00	-2.16	0.63	
9	BR,Environment - BR,Skeuomorphic	-7.92	17.07	217.00	-0.46	1.00	
10	BR,Environment - HR,Creature	-48.73	17.07	217.00	-2.86	0.11	
11	BR,Environment - HR,Environment	-27.05	17.07	217.00	-1.58	1.00	
12	BR,Environment - HR,Particles	-5.48	17.07	217.00	-0.32	1.00	
13	BR,Environment - HR,Skeuomorphic	30.27	17.07	217.00	1.77	1.00	
14	BR,Particles - BR,Skeuomorphic	29.02	17.07	217.00	1.70	1.00	
15	BR,Particles - HR,Creature	-11.80	17.07	217.00	-0.69	1.00	
16	BR,Particles - HR,Environment	9.89	17.07	217.00	0.58	1.00	
17	BR,Particles - HR,Particles	31.45	17.07	217.00	1.84	1.00	
18	BR,Particles - HR,Skeuomorphic	67.20	17.07	217.00	3.94	0.00	**
19	BR,Skeuomorphic - HR,Creature	-40.81	17.07	217.00	-2.39	0.39	
20	BR,Skeuomorphic - HR,Environment	-19.12	17.07	217.00	-1.12	1.00	
21	BR,Skeuomorphic - HR,Particles	2.44	17.07	217.00	0.14	1.00	
22	BR,Skeuomorphic - HR,Skeuomorphic	38.19	17.07	217.00	2.24	0.55	
23	HR,Creature - HR,Environment	21.69	17.07	217.00	1.27	1.00	
24	HR,Creature - HR,Particles	43.25	17.07	217.00	2.53	0.28	
25	HR,Creature - HR,Skeuomorphic	79.00	17.07	217.00	4.63	0.00	***
26	HR,Environment - HR,Particles	21.56	17.07	217.00	1.26	1.00	
27	HR,Environment - HR,Skeuomorphic	57.31	17.07	217.00	3.36	0.02	*
28	HR,Particles - HR,Skeuomorphic	35.75	17.07	217.00	2.09	0.71	